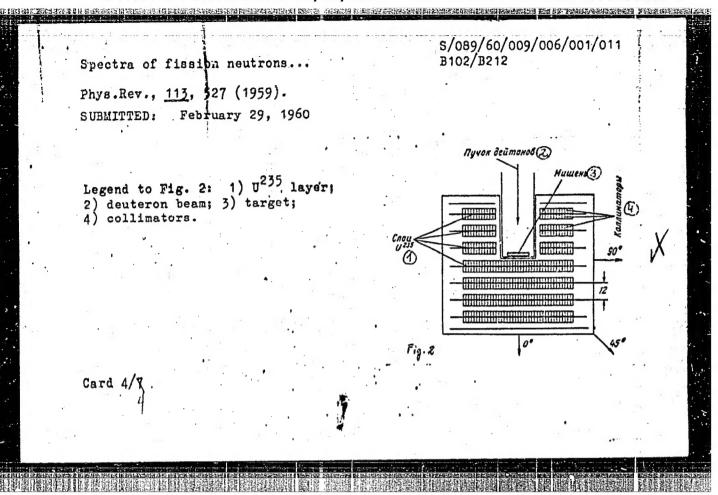
"APPROVED FOR RELEASE: 09/19/2001 C

CIA-RDP86-00513R001963730001-1

S/089/60/009/006/001/011 B102/B212 Spectra of fission neutrons of the fragments. Here are the values obtained: $n_{\tau}(0^{\circ}):n_{\tau}(45^{\circ}):n_{\tau}(90^{\circ})$ = (1.31 ± 0.07) : (1.22 ± 0.06) : 1.00. The neutron distribution showed a considerable anisotropy: $b_{14} = N(0^{\circ})/N(90^{\circ}) = 3.23\pm0.12$. The following value has been obtained after subtracting the neutrons evaporated before a fission $b_{14} = 4.03 \pm 0.23$; this value agrees within the limits of error with that obtained for thermal neutrons $(b_t = 4.35\pm0.19)$. In order to describe these experimental results theoretically, calculations have been done and various assumptions have been made regarding the neutron spectra in the coordinate system of the fragments. However, no variant was able to yield satisfactory results that agreed with all three spectra which have been examined. The authors thank P. V. Toropov, Yu. Ya. Glazunov, A. N. Maslov, N. I. Nemudrov, V. A. Parshina, V. S. Khorkhordin, V. A. Komarova, M. P. Novikova, G. A. Peretokina, and L. A. Chernova for assistance. There are 6 figures, 1 table, and 14 references: 6 Soviet. bloc and 8 non-Soviet-bloc. The three references to English-language publications read as follows: Ref. 7: W.Stein.Phys.Rev. 108, 94 (1957); Ref. 10: S. Whetstone. Phys.Rev., 114, 581 (1959); Ref. 12: J. Terrell,



24.6500,24.6510 77246 SOV/89-8-2-11/30

AUTHORS: Kazarinova, M. I., Zamyatnin, Yu. S., Gorbachev, V. M.

TITLE: 2.5 and 14.6 mev Neutron Cross Sections of Th²³⁰,

Pu²⁴⁰. Pu²⁴¹, and Am²⁴¹ Fission. Letter to the Editor

PERIODICAL: Atomnaya energiya, 1960, Vol 8, Nr 2, pp 139-141 (USSR)

ABSTRACT: Following recent fission cross-section measurements by fast neutrons, various researchers tried to establish

an empirical relation between the relative fission

probability $f = \frac{\sigma f}{\sigma c}$ and parameter $\frac{Z^2}{A}$. Nevertheless,

the functional relation between f and the mass number A (for a fixed atomic number Z) was investigated in some detail only for the case of uranium, and the relation between f and Z was not clear at all, except that f rises quite rapidly with increasing Z. To study closer this latter problem and to get a more precise f(A) relationship,

the authors exposed Th²³⁰, Pu^{240} , Pu^{241} , and Am^{241} to

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2.5 and 14.6 mev Neutron Cross Sections of Th 230 , Pu 240 , Pu 241 , and Am 241 Fission. Letter to the Editor

77246 - sc7/89-8-2-11/30

2.5 and 14.6 mev neutrons originating from deuterium and tritium targets bombarded by 150-200 kev deuterons. The registration of events took place by means of a fission chamber with electron collection. Isotope content of Th and Am was determined mass-spectrometrically, and that of Pu^{239} in a layer of Pu^{240} by "weighing" it in the flux of thermal neutrons. The content of Am241 formed in a Pu^{241} layer resulting from its Ω disintegration was determined from the known accumulation time. The amount of Th230, Pu^{240} ,

Am²⁴¹ isotopes in layers under investigation was determined by counting **Q** -particles emitted by those isotopes. The Pu²⁴⁰ content in the layer was also determined from the number of spontaneous fissions, and the amount of Pu²⁴¹ by counting **Q** -particles from the amount of Pu²⁴¹ by counting **Q** -particles from the amount of Pu²⁴¹ by counting **Q** -particles from the pu²⁴¹ are the particles from t

 ${\rm Am}^{241}$. The Pu²⁴¹ layer was also "weighed" in the thermal neutron flux, taking 1,025 \pm 10 barn for the

Card 2/11

2.5 and 14.6 mev Neutron Cross Sections of 77246 Th^{230} , Pu^{240} , Pu^{241} , and Am^{241} Fission. SOV/89 Letter to the Editor

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value of the Pu²⁴¹ thermal neutron fission cross section. For Pu²⁴⁰ and Pu²⁴¹ various methods used agreed within experimental errors. Table 1 contains the results obtained together with the half-lives used by the authors during calculations.

Table 1. The characteristics of layers of isotopes studied.

Isotopa	EFAcctive weight	Half-life, ·	Tratepic computation
Th ²²⁰	(1870±40)	$\begin{array}{c} 8.10^{4} [2] \\ 6.6.40^{3} [1]; T1/2 syst. = \\ & 1.2.10^{14} [2] \\ & 13.2 [3] \\ 458 \pm 0.5 [3] \end{array}$	$(35\pm1)^{0.6}_{-15}$ Th ²³⁰ ; $(65\pm1)^{0.6}_{-15}$ Th ²³²
Pu ²¹⁰	(345;t;15)		$15^{0.6}_{-0}$ Pu ²³⁰ ; $85^{0.6}_{-0}$ Pu ²³⁰
Pu ²¹¹	(50,6,£1,6)		$12^{0.6}_{-0}$ Am ²⁴¹ ; $88^{0.6}_{-0}$ Pu ²⁴¹
Am ²¹¹	(80,£2)		$100^{0.6}_{-0}$ Am ²⁴¹

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2.5 and 14.6 mev Neutron Cross Sections of ${\rm Th}^{230}$, ${\rm Pu}^{240}$, ${\rm Pu}^{241}$, and ${\rm Am}^{241}$ Fission. Letter to the Editor

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The 14.6 mev neutron cross section was determined by absolute methods. Neutron flux was obtained counting Q-particles from T(d, n)He reaction, while the background of scattered neutrons was determined performing measurements at different places between the chamber and the sources. The 2.5 mev measurements could not be made completely exact, because of the small counting rate. Relative measurements utilized twin fission chambers which contained at the same time a material of known fission cross section for neutrons of given energy. Cross section of Th²³⁰ was taken relative to that of Th²³², and those of Pu²⁴⁰, Pu²⁴¹, and Am²⁴¹ relative to the U²³⁸ fission cross section. For control purposes Am²⁴¹ was compared to U²³⁵. The 2.5 mev cross sections were also compared to those at 14.6 mev by utilizing the relative fission cross sections of materials used in the neutron beam monitors:

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2.5 and 14.6 mev Neutron Cross Sections of Th²³⁰, Pu²⁴⁰, Pu²⁴¹, and Am²⁴¹ Fission. Letter to the Editor

77246 SOV/89-8-2-11/30

0.13 and 0.34 barn for Th²³⁵ and 0.58 and 1.1 barn for U²³⁸ detectors at the respective energies of 2.5 and 14.6 mev. Cross section values are from papers of Hughes and Schwartz (see reference at end of Abstract). All 2.5 mev values agreed on the limit of errors, and results are given in Table 2.

Table 2. 2.5 and 14.6 mev neutron induced fission cross sections $\sigma_{\rm r}$ of isotopes, barn.

	2,5 mev		14.6 mev		
Isotopes	Data from presunt experiments	Data by other authors	Data from present experiments	Data by other authors	$\sigma_{f_1}^{**}$
Th ²³⁰ Pu ²⁴⁰ Pu ²⁴¹ Am ²⁴¹	0,41±0,08 1,6 ±0,3 1,2 ±0,2 1,85±0,2	1,5±0,15 [A] 1,35 [1]	0.72 ± 0.15 2.4 ± 0.3 2.05 ± 0.1 2.95 ± 0.15	2,8 ±0,2* [A] 2,35±0,15 [B]	0,90 2,55 2,15 2,85

Card 5/11 * Fission cross section due to neutrone of it men energy.

2.5 and 14.6 mev Neutron Cross Sections of Th²³⁰, Pu²⁴⁰, Pu²⁴¹, and Am²⁴¹ Fission. Letter to the Editor

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In Table 2, Reference A is: V. Q. Nesterov, Q. N. Smirenkin, Zh. eksperim. I teor. fiz., 35, 522 (1958); and Reference B is: A. N. Protopopov, Yu. A. Selitskiy, Atomnaya energiya, 6, Nr 1, 67 (1959). The authors paid special attention to possible mistakes in the case of Am²⁴¹, where the results disagreed with results of other authors, but they did not find any appreciable error. Evaluation of Results. The 2.5 mev neutron results verify the decrease of the fission cross section and the ratio f with the increase of A (for fixed Z). The explanation of this is connected to the decrease of neutron binding energy, and to the related rise in neutron evaporation probability. From this standpoint the practically negligible influence of pairing of the fissionable isotopes on f(A) seems slightly strange, since it affects the binding energy Ep. The authors found also that f is not a single-valued function of Z²/A since, as seen on Fig. A, each element has a particular f-curve.

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2.5 and 14.6 mev Neutron Cross Sections of Th 230, Pu 240, Pu 241, and Am 241 Fission. Letter to the Editor

77246 SOV/89-8-2-11/30

Fig. "A". Relative probability of nuclear fission for versus the parameter

2 / A. o, neutron-induced fission; x, photofission (points o and x taken from:

Yu. S. Zamyatnin, The Physics of Nuclear Fission, Supplement Nr 1 to the periodical Atomnaya energiya; M.

Atomizdat, 1957, p 27, corrected by taking into

Atomizdat, 1957, p 27, corrected by taking into account newly published fission cross-section data); $\frac{1}{1}$ are data from the present investigation. Dashed line shows approximate $f(Z^2/A)$ relationships for various values of the binding energy.

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2.5 and 14.6 mev Neutron Cross Sections of ${\rm Th}^{230}$, ${\rm Pu}^{240}$, ${\rm Pu}^{241}$, and ${\rm Am}^{241}$ Fission. Letter to the Editor

77246 sov/89-8-2-11/30

Trying to fit all the curves together using Z^n/A , at $n \neq 2$, dependence, it became clear to the authors that fitting curves of different groups of elements would require different exponents of n. To fit Th, Pa, and U, n should be 1.7; to fit U, Np, and Pu, n should be 1.2; to fit Am^{242} with the Pu curve, n = 0.8. The authors note that the weaker dependence of f from Z is apparently connected to the fact that, in addition to the Z^2/A parameter, f is determined also by the probability of neutron evaporation, which again depends on the binding energy of neutrons. If one takes into account that for a given Z^2/A and the same pairing, an increase in Z is connected to a decrease of binding energy (see Table 3) and, consequently, with an increase of evaporation probability, it becomes understandable why one observes reduced relative fission probability of isotopes of elements with larger Z.

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2.5 and 14.6 mev Neutron Cross Sections of ${\rm Th}^{230}$, ${\rm Pu}^{240}$, ${\rm Pu}^{241}$, and ${\rm Am}^{241}$ Fission. Letter to the Editor

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Table 3. Neutron binding energy in nuclei versus Z for fixed z^2/A , in mev.

			Z,	2/A				
35,	25	35	, i	36,2		36	5,5	
Th ²³⁰ Pa ²³⁵ Tim	6,7 6,3 5,8	. Case Lugas Lugas	7,0 6,6 	Nb ₃₂₀ fisat	6,7	Pu212 Np212 Up212	7,1 6,7 6,2	

It follows that by observing nuclei which have equal values of $E_{\rm B}$ one can exclude the effect of neutron evaporation and obtain an $f(Z^2/A)$ depending on the fission process only (see Fig. A). The 14.6 mev

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2.5 and 14.6 mev Neutron Cross Sections of ${\rm Th}^{230}$, ${\rm Pu}^{240}$, ${\rm Pu}^{241}$, and ${\rm Am}^{241}$ Fission. Letter to the Editor

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fission cross sections may be compared to the expected fission cross-section values on the second plateau using

 $\sigma_{f_1} = \sigma_{f_0} \left[1 + \frac{(1 - f_0) f_{-1}}{f_0} \right]$ (1)

Computed values σ_f are tabulated in Table 2. Allowing during such a comparison the possibility of occurrence of a new channel leading to fission of the nucleus reaction (n, 2nf) whose energy threshold lies slightly below 14 mev, and allowing the possibility of a slant of the plateau due to a difference in the fission Γ_f and neutron Γ_n width increase with energy, the agreement may be considered as good. A larger discrepancy in case of Th^{230} can be explained by lower accuracy of its fission cross-section determination. B. V. Kurchatov, M. I. Pevzner, G. N. Yakovlev, E. P. Lergunov,

Card 10/11

2.5 and 14.6 mev Neutron Cross Sections of ${\rm Th}^{230}$, ${\rm Pu}^{240}$, ${\rm Pu}^{241}$, and ${\rm Am}^{241}$ Fission. Letter to the Editor

77246 **SO**V/89-8-2-11/30

and S. K. Sokolova supplied the isotopes and prepared the layers; I. A. Tishchenko and G. M. Kukavadze performed the mass-spectrometric analysis; Yu. A. Vasil'yev and E. I. Sirotin performed measurements on the accelerating tube; and M. S. Shvetsov, Yu. A. Barashkov, and E. D. Beregovenko helped take measurements. There is 1 figure; 3 tables, and 8 references, 3 Soviet, 1 U.K., 4 U.S. The U.K. and U.S. references are: J. Huizenga, Phys. Rev., 109, 484 (1958); D. Hughes, R. Schwartz, Neutron Cross Sections, New York, BNL (1958); D. Hall, T. Markin, J. Inorg. and Nucl. Chem., 4, 137 (1957); R. Leachman, Report Nr 2467 presented by U.S.A. at the Second United Nations International Conference for the Peaceful Uses of Atomic Energy (Geneva 1958); M. Studier, J. Huizenega, Phys. Rev., 96, 545 (1954).

SUBMITTED: Card 11/11

August 8, 1959

S/089/6\$/010/001/002/020 B006/B063

AUTHORS:

Ronyushkin, Ye. K., Zamyatmin, Yu. S., Spektor, V. V., Rachev, V. V., Negina, V. R., Zamyatnina, V. N.

TITLE:

Fragment Yields From v^{233} and Pu^{239} Fissions Induced by

Fast Neutrons

PERIODICAL:

Atomnaya energiya, 1960, Vol. 10, No. 1, pp. 13 - 18

TEXT: The authors applied radiochemical methods to determine the absolute fragment yields of U^{233} and Pu^{239} fissions induced by 14.5-MeV neutrons and neutrons of the fission spectrum. A report of the results is made here. Specimens of \overline{u}_3^{233} 03 and metallic Pu²³⁹ foils (120 - 150 mg) were irradiated in hermetically sealed brass cells - both with 14.5 Mev neutrons (from the target of an accelerator, by means of a t,d-reaction) and neutrons of the fission spectrum (from a non-moderated U²³⁵ arrangement). The total flux hitting the specimens was $\sim 5.10^{14}$ neutrons. Thereupon, the fragments were Card 1/4

Fragment Yields From U²³³ and Pu²³⁹ Fissions S/989/60/0:0/00:/002/020 B006/B063

deparated chemically, and their beta activity was measured. The mass distributions of fragments were determined for the irradiated specimens. The curves are basically symmetric, i. e., the minimum between A = 110 - 120 is flanked by two maxima at A = 90 - 100 and A = 135 - 145. The simple linear correlation between the difference Δ m of the average masses of the heaviest and the lightest fragment and the atomic weight of the nucleus undergoing fission was independent of the neutron energy but dependent on whether A was even or odd:

Dut dependent on the second of the specimens; and V. I. Shamarukhin are thanked for neutron irradiation of the specimens; and V. I. Shamarukhin are thanked for neutron irradiation of the specimens; P. N. Moskalev, N. V. Shuvanova, A. A. Yegorova, and K. N. Borozdina for chemical operations; and V. V. Zakatilov and L. N. Sorokina for assistance in physical measurements. Numerical results are tabulated. There are in physical measurements. Numerical results are tabulated. There are in physical measurements. Soviet and 7 US.

SUBMITTED: April 16, 1960

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	осколков деления U		
		Pu	230
СПТРОНЫ СПЕНТРА ТЕЛЕЦИИ	нейтроны с энергией 14,5 Мэг Э	неятроны спентра деления 2	с эпергией 14,5 Мэ- 3
6,30±0,60 4,75±0,35 0,413±0,045 0,16±0,02 0,0337±0,003 0,052±0,006 0,050±0,006 0,602±0,050 1,57 4,36±0,40 0,11 6,28±0,50 6,31±0,50 6,77±0,60	3,5±0,3 2,31±0,30 1,52±0,20 1,22±0,12 0,98±0,18 1,05±0,20 — 3,98±0,35 0,5 4,7±0,5 5,0±0,5	5,9±0,6 6,0±0,7 4,8±0,6 0,55±0,08 0,09±0,01 0,095±0,010 0,45±0,09 1,17 3,5±1,0 — 5,4±0,5	4,16±0,40 6,25±0,80 4,16±0,5 1,46±0,14 1,23±0,10 1,30±0,11 - 4,58±0,50 5,1±0,8 4,35±0,40
	6,30±0,60 4,75±0,35 0,413±0,045 0,16±0,02 0,0327±0,003 0,052±0,006 0,050±0,006 0,002+0,050 1,57 4,36±0,40 0,11 6,28+0,50	6,30±0,60 4,75±0,35 0,413±0,045 0,16±0,02 1,52±0,20 1,52±0,006 0,052±0,006 0,050±0,006 0,002±0,050 1,57 4,36±0,40 0,11 6,28±0,50 3,5±0,3 1,52±0,20 1,22±0,12 1,05±0,20 1,05±0,20 3,98±0,18 1,05±0,20 3,98±0,35 0,5 4,7±0,5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

S/089/60/010/001/002/020 B006/B063

Legend to the Table: 1) Fragment, 2) the fission being induced by neutrons of the fission spectrum, 3) the fission being induced by 14.5-Mev

Card 4/4

s/056/6c/038/03/02/033 B006/BC14

21.11:00

AUTHORS:

Vasil'yev, Yu. A., Zamyatnin, Yu. S., Il'in, Yu. I.,

Sirotinin, Ye. I., Toropov, P. V., Fomushkin, E. F.

TITLE:

Measurement of Spectra and the Average Neutron Number in the

Fission of U^{235} and U^{238} by 14.3-Mev Neutrons

。 1915年 - 1915年 -

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

Vol. 38, No. 3, pp. 671-684

TEXT: The present article deals in detail with the experimental investigations made in the energy range 0.4 - 5 Mev by means of the time-of-flight technique and a pulsed neutron source. The experimental arrangement is schematically shown in Fig. 1. The reaction T(d,n)He4 served as primary neutron source in the target of an accelerator. The target was bombarded with 150-kev deuterons. The time-of-flight determination was carried out electronically by measuring the time integrals between the pulses in the detector. The deuteron impulses were obtained by modulation; i.e., by means of a sinusoidal

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Measurement of Spectra and the Average Neutron Number in the Fission of ${\tt U}^{235}$ and ${\tt U}^{238}$ by 14.3-Mev Neutrons

S/056/60/038/03/02/033 B006/B014

electric field (f = 2Mc/sec); the pulses of the 14.3-Mev neutrons lasted 3mmsec and had a frequency of 4 Mo/sec. On the average, 4 neutrons were obtained per pulse. Two fission chambers were used (with U235 (90 per cent) and U238 (natural isotope composition)); the chambers were filled with a mixture of argon and CO₂-gas (10 per cent) at 760 torr. A tolan crystal (diameter 60 nm, thickness 25 mm) with a photomultiplier of the type FEU-35 served as neutron detector. The efficiency of the detector was determined according to Mardy. Fig. 2 shows the efficiency as a function of the energy of three threshold energies: 0.2, 0.25, and 0.3 Mev. The electronic apparatus used to measure the pulse distribution in the detector with respect to time is described in detail. Fig. 3 illustrates a block scheme, Fig. 4 a recorded pulse versus time diagram Fig. 5 shows the time distribution of the pulses recorded with the casurement of the neutron spectrum of the U238 fission.

Besides neutrons and g-rays of the fission the following were also recorded: 14-Mev primary neutrons, neutrons, and g-quanta due to interaction between primary neutrons and parts of the apparatus, radiations of the activated

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Measurement of Spectra and the Average Neutron Number in the Fission of U235 and U238 by 14.3-Mev Neutrons

s/056/60/038/03/02/033 B006/B014

substances, neutrons, and y-quanta due to primary neutron scattering, and 2.5-Mev neutrons from the accelerator. Details and accuracy of the "separation" of the measured values from the background are discussed. The neutron spectra of U^{235} and U^{238} fission are shown in Figs. 7a and 7b. All curves show a similar course: a steep ascent, a peak, and an even descent. Figs. 8a and 8b show the diagrams made for the analysis of the spectra in the coordinates In (F(E)/E) and E_p . The spectra may be satisfactorily represented by

 $F(E) = \propto \frac{E}{T^2} \exp\left(-E/T\right) + (1 - \infty) \frac{\exp\left(-w/T_f\right)}{\|wT_f\|} \exp\left(-E/T_f\right) \text{ sh } \frac{2\sqrt{wE}}{T_f}.$ The analytical results are listed in Table 1. The following parameter values are indicated: for U^{235} , $T_f = (1.06 \pm 0.03)$. Nev; $T = (0.37 \pm 0.04)$ Mev; \propto (fraction of evaporated neutrons) = $(0.16 \pm 0.02)\%$; for 0^{238} , $T_f = (1.16 \pm 0.03)$ MeV; $T_f = (0.40 \pm 0.04)$ MeV; $C_f = (0.21 \pm 0.02)\%$. The average number of neutrons emitted in the fission ∇ : 4.17 ± 0.30 (σ^{235}) and

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Measurement of Spectra and the Average Neutron Number in the Fission of U^{235} and U^{238} by 14.3-Mev Neutrons

S/056/60/038/03/02/033 B006/B014

4.28 \pm 0.30 (U^{238}), the ratio $\bar{V}(U^{238})/\bar{V}(U^{235}) = 1.03 \pm 0.03$. The following data were obtained: U^{235} : $d\bar{V}/dE_n = 0.112 \pm 0.011$ and U^{238} : $d\bar{V}/dE_n = 0.115 \pm 0.011$; (E_n - neutron energy). In conclusion, the authors thank Yu. Ya. Glazunov, A. N. Maslov, N. I. Nemudrov, V. A. Parshina, A. I. Resetov, V. S. Khorkhordin, and V. N. Shikin for having participated in the tions. Mention is also made of the group of V. A. Komarova for computer calculations. Mention is also made of the group of V. A. Ivanov, Yu. S. Zamyatnin, G. A. Bat', and L. P. Kudrin. There are 9 figures, 2 tables, and 21 references, 12 of which are Soviet.

SUBMITTED: August 5, 1959

1

Card 4/4

s/641/61/000/000/014/033 B104/B102 Bonyushkin, Ye. K., Zamyatin, Yu. S., Kirin, I. S., Martynov, N. P., Skvortsov, Ye. A., Ushatskiy, V. N. Fragment yields of fast neutron fission of U235 and U238 24.6600 Krupchitskiy, P. A., ed. Neytronnaya fizika; sbornik states AUTHORS: TEXT: Results of fragment yield measurements carried out in 1953-1955 are dealt with. U235 and U238 were fissioned by 14.5-MeV neutrons and fission neutrons. TITLE: dealt with. U-// and U-/- were fissioned by 14.5-Mev neutrons and fission neutrons. The relative fragment yield with respect to the Mo. SOURCE: yield and the absolute yield in Mo were determined. Pressed 10=50 8 U 308 tablets were put into a hermetically sealed container. A U²³⁵ multiplication system without a moderator, and a converter which transformed thermal neutrons into fission neutrons were used as fission neutron sources. The specimen was bombarded by an integral neutron flux A tritium-saturated zirconium target which was bombarded with of 2°10¹³.

CIA-RDP86-00513R001963730001-1" APPROVED FOR RELEASE: 09/19/2001

32987 S/641/61/000/000/014/033 B104/B102

Fragment yields of fast

150-kev protons served as 14.5-Mev neutron source. The integral neutron flux onto the specimen was 2.10^{14} . The irradiation time was 6 to 10 hrs. The fission fragments were separated from the irradiated samples by isotope dilution. The fragment yields were determined from their β -active ity by end-window counters with a 15-20 μ thick mica window having a diameter of 20 mm. The results are summarized in Table 2. The relative probability of a symmetrical fission largely depends on the excitation energy of the compound. For U235 the ratio r between the fragment yield of a symmetrical fission and the maximum yie'd increases from 0.0016 in thermal-neutron fission to 0-0052 in fission induced by fission neutrons, and to 0.2 in the fission with 14.5-Mev neutrons. An increase in excitation energy of the compound nucleus to 14.5 Mev increases the relative probability of a symmetrical fission by a factor of 125. The variation of r for v^{239} , v^{236} , v^{234} , and Pu^{239} is studied as a function of z^2/A . The distribution of the fragment yields of these isotopes as a function of A of the fragments is asymmetric. The authors thank A. A. Malinkin, M. I. Pevzner, L. B. Poretskiy and Ye. I. Sirotinin for irradiating the uranium samples with neutrons, V. V. Spektor and L. S. Andreyeva for help in the measurements, V. N. Zamyatnina, A. A. Pessarabenko Ye. P. Card 2/4 1

 Fragment yields of fast ...

32987 \$/641/61/000/000/014/033

Krasheninnikova, V. R. Negina, N. V. Shuvanova, S. Ye. Sanina and E. A. Kozyreva for the radiochemical separation. A. N. Protopopov (Atomnaya energiya, 5, vyp. 2, 1958) is mentioned. There are 6 figures, 2 tables, and 19 references: 5 Soviet and 14 non-Soviet. The four most recent references to English-language publications read as follows: Fong P., Phys. Rev., 102, 434 (1956); Katcoff S., Nucleonics, 16, 4 (1958); Bunney L. R., Scadden E. M., Abriam J., Ballou N. O., report no. 643, held at the Second International Conference on the Peaceful Uses of Atomic Energy, Geneva, 1958; Hemmendinger A., report no. 663, held at the Second International Conference on the Peaceful Uses of Atomic Energy,

Table 2. Total fragment yield, %. Legend: (1) isotope, (2) fission spectrum, (3) 14.5 Mev.

Card 3/

ECHYUSEKIN, Ye.K.; ZAMYATNIH, Tu.Sa.; SPERTOR, V.V.; RACHEY, V.V.; NEGINA, V.R.;

ZAMYATNIHA, V.W.

Tields of fragments from the fission of U²³³ and Pu²³⁹ induced by fast neutrons. Atoms. energ. 10 no.1:13-18 Ja *61. (MIRA 13:12)

(Uranium—Isotopes) (Flutonium) (Fission products)

S/824/62/000/000/003/004 B164/B102

AUTHOR:

Zamyatnin, Yu. S.

TITLE:

Fission prompt neutrons and y-rays

SOURCE:

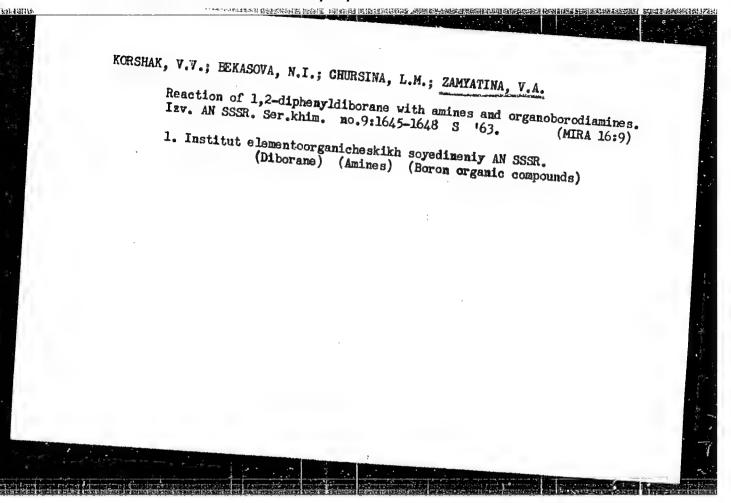
Fizika deleniya atomnykh yader. Ed. by N. A. Perfilov and V. P. Eysmont. Moscow, Gosatomizdat, 1962, 98 - 120

TEXT: A review is given on the results obtained by experiments on prompt neutrons and x-quanta emitted from excited fission fragments of heavy years. The papers under reference cover the period of the last five number and spectrum of prompt neutrons, evaporated from the fragments of neutron; Angular and energy distributions, anisotropy effects. Fission parameters, e.g. on fragment mass ratio. Finally some open questions are discussed. It is urged that experiments on spectra and angular anisotropy mass are very desirable. There are 14 figures and 3 tables.

RCRSHAK, V.V.; ZAMYATINA, V.A.; BEKASOVA, N.I.

Polycondensation of 1,2-diphenyldiborane with diamines. Izv.
AN SSSR. Ser.khim. no.9:1648-1651 S '63. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Diborane) (Amines)



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963730001-1"

ECHTUSHEIN, Ye.K.; ZAMTATHIN, Yu.S.; SPEETOR, V.V.; RACHEV, V.V.; NEGINA, V.R.;

ZAMTATHINA, V.W.

Yields of fragments from the fission of U²³³ and Pu²³⁹ induced by fast neutrons. Atoms. energ. 10 no.1:13-18 Ja '61. (MIRA 13:12) (Uranium—Isotopes) (Plutonium) (Fission products)

NECINA, V.R.; ZAMYATNINA, V.N.; YECOROVA, A.A.; Prinimali uchastiye:
PRESNYAROVA, M.A.; CHIKKISHEVA, L.S.; SHEVCHENKO, P.P.; TRUBIN, I.A.;

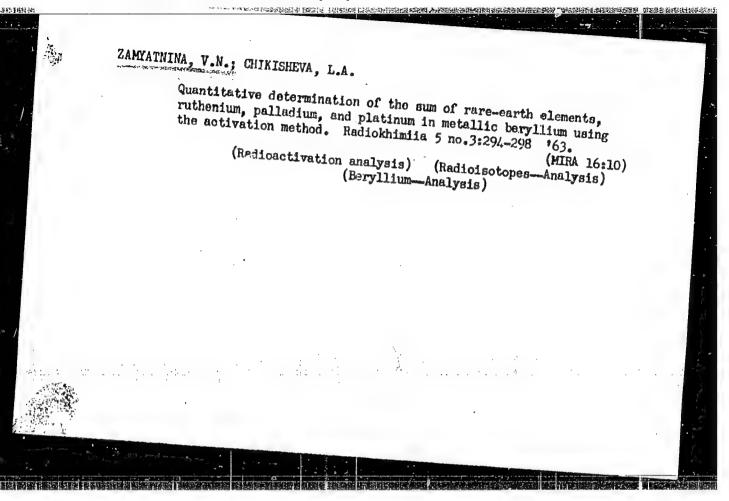
Determination of chlorine, arsenic, and phosphorus impurities in some organic materials by the activation method. Radiokhimiia 5 (MIRA 16:10)

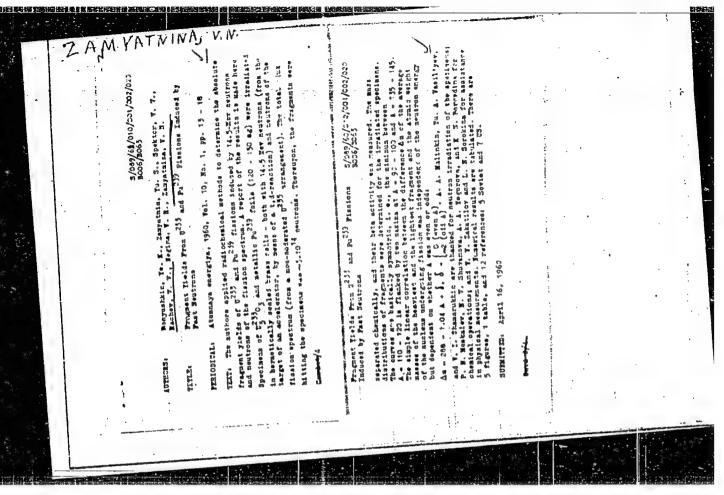
NEGINA, V.R.; ZAMYATNINA, V.N.

Quantitative determination of traces of barium, nickel, copper, quantitative determination of traces of parium, nickel, copper, antimony, molybdenum, manganese, cadmium, tin, gold, arsenic in metallic beryllium by the radioactivation method. Zhur.anal. khim. 16 no.2:209-212 Mr-Ap '61.

(Metals-Analysis) (MIRA 14:5)

(Activation analysis)





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HEGINA, V.R.; TANYATHINA, V.H.; PRETYMNOW, M.A.; CHIKISHEVA, L.A.

Producectivation nothed for determining the total of rere carticularly, carrenese, noted, copper, antimony, americ, noly dense, cadmium, and gold in lithium compounds. Radiolchimin 3

no.4:473-477 '61.

(Radioisotopes-Analysia)

 KARATAYEV, N.E., prof.; POLYANSKIY, F.Ya., prof.; REUEL, A.L., prof.; AFAHAS'YEV, V.S., dotsent; BORKOVA, K.I., dotsent; ZAMYATNINA, V.N., dotsent; RYNDIHA, N.H., dotsent; BAKOVETSKIY, O., red.; CHEPKIEVA, O., tekhn.red.

[Curriculum for the course "History of economic theory"; for economic institutions of higher learning and faculties].

Programma kursa "Istoriia ekonomicheakikh uchenii" dlia ekonomicheakikh vyashikh uchebnykh zavedenii i fakul'tetov. Moakva.

Izd-vo sotsial'no-ekon.lit-ry, 1960. 48 p. (MIRA 14:1)

1. Russia (1923- U.S.S.R.) Upravleniye prepodavaniya obshchestvennykh nauk. 2. Komissiye Upravleniya prepodavaniya obshchestvennykh nauk Ministerstva vysshego i srednego spetsial nogo obrazovaniya SSSR (for all, except Bakovetskiy, Chigina).

(Economics--Study and teaching)

ZANTCHKIN, K.S., GRODZENSKIY, D.E.

Turnover of organic phosphorus compounds in animal bile [with summary in English]. Vop.med.khim. 4 no.3:175-161 My-Je *58 (MIRA 11:6)

l. Laboratoriya fiziologii i patologii pishchevareniya Instituta normal'noy i patologicheskoy fiziologii AMN SSSR i TSontral'nyy institut usovershenstvovaniya vrachey.

(PHOSPHORUS, metabolism

turnover of organic phosphorus cpds. in bile of dogs (Rus))

(BILE.

organic phosphorus cpds, in bile of dogs after oral admin. of radiophosphorus (Rus))

ZAMYCHKIN, S AID P - 383 : USSR/Aeronautics Subject Pub. 58 - 1/4 Card 1/4 : Kryl. rod., 8, 1-24, Ag 1954 Periodical Abstract Three articles from this issue have been processed on separate cards (indicated below). The remainder are not considered of any special value and are listed only on the following Table of Contents: **PAGES** For New Aviation Records, (Written on the occasion of the distribution of rewards, a complaint about the inactivity of one center) Sazonov, I., Aviator Participants in All-Union Agricultural Exhibition (Names of two prominent aviators are mentioned). Photon 2 Smirnov, Ye., Alertness -- Our Weapon (A call for alertness in view of the possible imperialistic aggression. Several names cited as examples of outstanding alertness)

。 新种指指指表的技术也是否的方式是理解的方式和特别的表面供给的数据数据数据数据数据数据。由于一个各种数据或是更多的数据<mark>是这些的数据的现在分词,但是他是否对于这种</mark>

Kryl. rod., 8, 1-24 Card 2/4 Pub. 58	Ag 1954	P - 383
5. 6. 1 7. 2 8. 1	Zamychkin, S., The Struggle for Altitude (A pilot's account of how he broke an altitude record on a slightly modified standard YaK-18 aircraft), Photo Petryanov, L., International Glider Competition (Processed on separate card). Photos Makarov, V., Some Problems of the Theory of Glider Take-Off by Means of a Mechanical Hoist (Processed on separate card). Photos, diagrams, etc. A Sportsman of Merit (Recent achievements of Yefimenko, V. I., glider pilot). Photo How to Judge the Exercise: "Flight on Glider to a Designated Point and Return to the Take Off Place" Malayev, V., Competition of Glider Pilots from 2 Districts. Photo Tsuker, Yu., Engineer, Parachute Trainer (Processed on separate card). Diagrams	5 6-7 8-10 10 11 11

			Participation of the second
		AID	P - 383
Kryl. rod.,	8, 1	-24, Ag 195 ⁴	
Card 3/4			PAGES
		Ivannikov, D., Community Instructor (Example of good instruction work in USSR schools). Photo	13
		Tatsiturnov, V., Needle-less Carburator (Description and technical data). Photo, diagrams Martynov, B., Engineer, High Velocity Free	
	14.	Flying Models (Elements of construction, automatic control, conditions of flight). Diagrams Bazhin, N., Aeroclub Helps Primary Organizations (Examples of the assistance given by a	1,0
	15. 16.	local aeroclub) Akhmedov, S., Lessons for DOSAAF members Aviation Sport in the People's Democracies. Glider and Modeler Records (Some recent	18 18
	7.77	achievements in Czechoslovakia, Roumania and Hungary) Amatuni, P., 4,000,000 km. (Bibliographical	19
	17.	notes on Shashin, I. T., Pilot First Class) Photo	20-82

Kryl. rod.,	8, .1	L-24, Ag 1954	AID	P - 383
Card 4/4	Pub. 18. 19.	58 - 1/4 Sports Chronicle (List of rewards) In the Aviation Sport Commission (Confirmation of recently established sport aviation records) Aviation Calendar (Description of past event Insert. (Construction plans of an aircraft model)		PAGES 22 23 23
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Institution: None

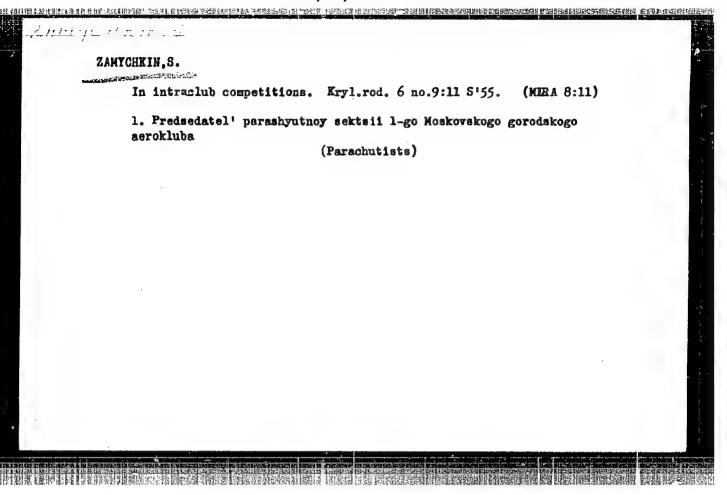
Submitted : No date

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ZAMYCHKIN, S.

SMIRNOV, B., geroy Sovetskogo Soyuza; PROTCHEV, V., geroy Sovetskogo Soyuza; ZAMYCHKIN, S., geroy Sovetskogo Soyuza, sportsmen 1-go razriada; EMEL'HIKOVA, A., geroy Sovetskogo Soyuza, sportsmen 1-go razriada; KOMAROV, A., geroy Sovetskogo Soyuza, sportsmen 1-go razriada; PONOMARENKO, Ya., geroy Sovetskogo Soyuza, sportsmen 2-go razriada; KHLOPTSEV, I., geroy Sovetskogo Soyuza, sportsmen 2-go razriada; POSTNIKOVA, Z., geroy Sovetskogo Soyuza, sportsmen 2-go razriada; POSTNIKOVA, Z., geroy Sovetskogo Soyuza, sportsmen 1-go razriada.

Make a sport model jet airplane; letter to the editor. Kryl.rod. 6 no.1:8 Ja '55. (MLRA 8:3)
(Jet planes)



ZAHYCHKid, S., rekordsmen SSSR po samoletnomu sportu; MEYLAKHS, M., rekordsmen SSSR po samoletnomu sportu.

。 大學出版。

Record flight on the An-2 airplane, Kryl. rod. 8 no.12:10 D 157.

(Aeronautics--Flights) (MIRA 10:12)

85-57-12-11/29

AUTHORS: Zamychkin, S. and Meylakhs, M., USSR Record Holders in Airplane Sports

TITLE: Record Flight in an An-2 Plane (Rehordnyy polet na samolete A12-2)

PERIODICAL: Kryl'ya rodiny, 1957, Nr 12, p 10 (USSR)

ABSTRACT: The authors describe their flight in an An-2 plane, designed by O.K. Antonov, by which they established 4 USSR records on a triangular route Tushino - Tikhonova Pustynya - Vyaz'ma. The flying time was 8 hours 27 minutes; the distance covered on a closed route was 2,013.192 km., which established the first record; the speed of 238.244 km./hr. on a 2,000-km. aloued route established the second record; the speed of 264.891 km./hr. on a 500-km. closed route, the third record, and the speed of 252.716 km./hr. on a closed 1,000-km. route the fourth record. Personalities mentioned include: engineers N. Alimov and A. Myachkov; technicians V. Novikov and A. Yevneyev; L. Ya. Oshurkov, deputy chairman of the DOSAAF Moscow Committee; sports commissars N. Kol'tsov and N. Babayev; N. Loginov, honorary Master of Sports, of the TsAK SSSR imeni V.P. Chkalova

Card 1/2

CIA-RDP86-00513R001963730001-1" APPROVED FOR RELEASE: 09/19/2001

Record Flight in an An-2 Plane

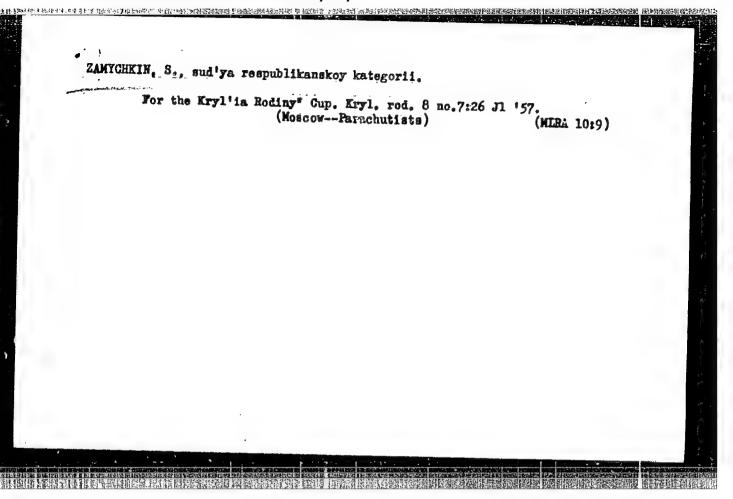
85-57-12-11/29

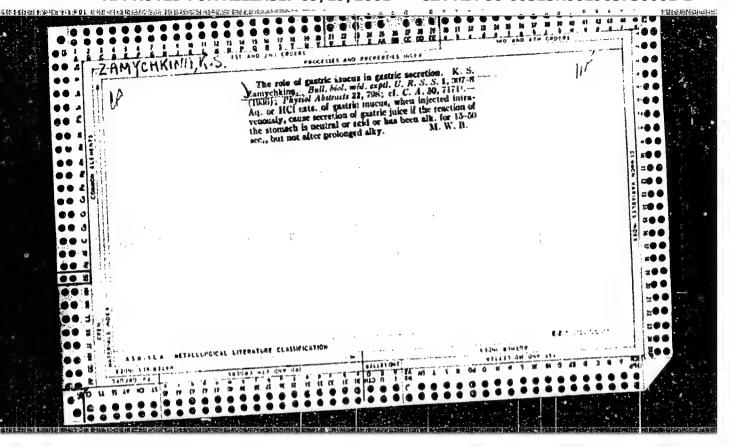
(Central Aeroclub of the USSR imeni V.P. Chkalov); and R. Volkov, sportsman 1st rank. There is one photograph showing N. Kol'tsov, chief of the precision instruments laboratory at the Central Aeroclub of the USSR imeni V.P. Chkalov, and the two authors,

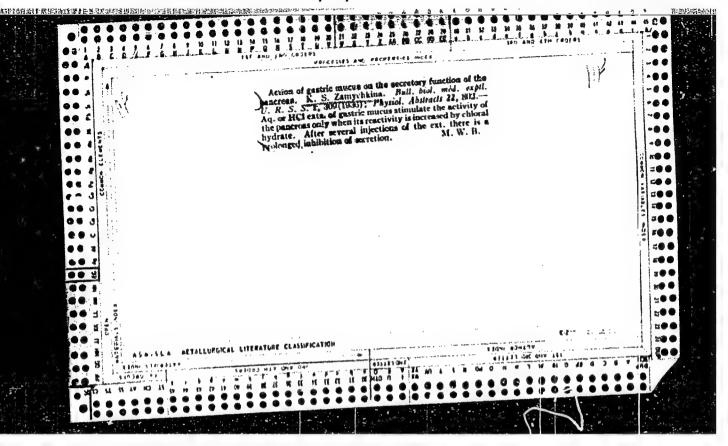
AVAILABLE: Library of Congress

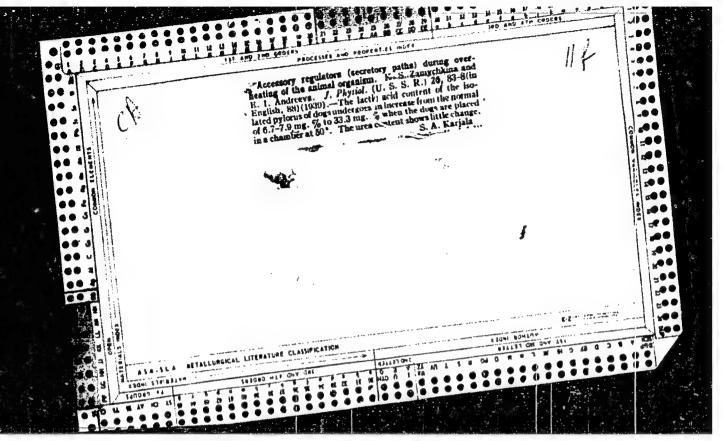
Card 2/2 1. Aviation-USSR

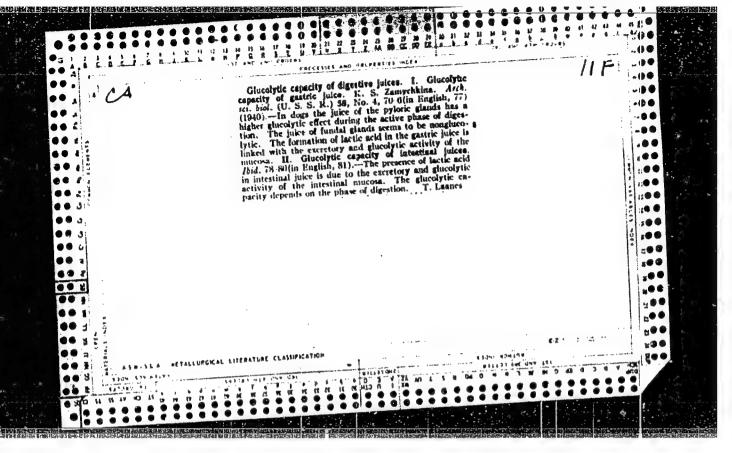
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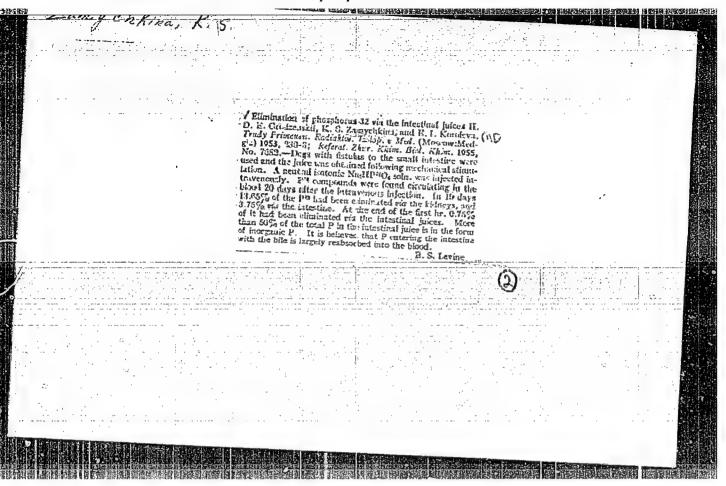






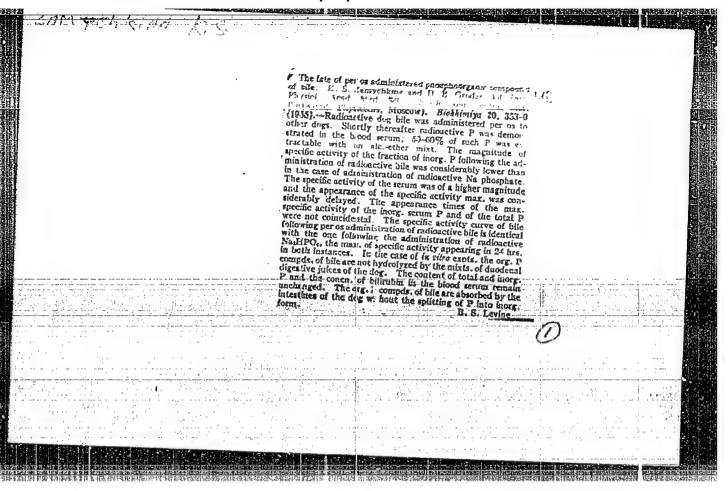


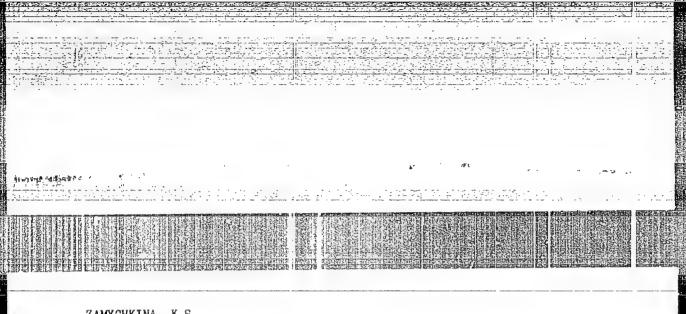




ZAMYCHKINA, K. S. and GRODSENSKIY, D. Ye.

"The Role of Radioactive Isotopes in Investigating the Physiology and Biochemistry of Digestion," a paper presented at the Atoms for Peace Conference, Switzerland, 1955





ZAMYCHKINA, K.S.

Reflex influence from the digestive tract on its absorptive capacity under normal conditions and in pathology of the liver. Biul. eksp. biol. i med. 54 no.9:50-53 S 62. (MIRA 17:9)

1. Iz laboratorii fiziologii i patologii pishchevareniya (zav.- prof. S.I. Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir.- deystvitel'nyy chlen AMN SSSR V.V. Parin) AMN SSSR, Moskva. Predstavlen deystvitel'nym chlenom AMN SSSR V.V. Parinym.

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ZAMYCHKINA, K.S.

多性。此,其具体地上不到专用的特殊的研究的特别是否也是必要的自己的权益。自己的法律的特别的

Effect of atropine on the rate of absorption from the gastroin-testinal tract of inorganic phosphate (Na₂HP³²O₄) and the rate of its utilization from the blood under normal conditions and in liver pathology. Biul. eksp. biol. i med. 54 no.8:44-46 Ag '62.

(MIRA 17:11)

1. Iz laboratorii fiziologii i patologii pishchevareniya (zav. - prof. S.I. Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvetel'nyy chlen AMN SSSR V.V. Parin) AMN SSSR, Moskva.

GRODZENSKIY, D.E.; ZAMYCHKINA, K.S.

Use of the isotope method for the study of absorption from the digestive tract, Med.rad. no.1:71-76'63. (MIRA 16:10)
(ALIMENTARY CANAL) (ARSORPTION (PHYSIOLOGY)

(TRACKES (BIOLOGY))

ZAMYCHKINA, K.S.; KRYUKOVA, L.V.

Absorptive capacity of the digestive tract at different periods of time following the partial resection of the small intestine. Biul. eksp.biol.i med. 54 no.7:22-26 Jl '62. (MIRA 15:11)

1. Iz laboratorii fiziologii i patologii pishchevareniya (zav. prof. S.I.Filipovich) Instituta normal'noy i patologicheskoy fiziologii
(dir. - deystvitel'nyy chlen AMN SSSR prof. V.V.Parin) AMN SSSR,
Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym.
(INTESTINES—SURGERY) (METHIONINE) (DIGESTIVE ORGANS)

FILIPPOVICH, S.I.; AMIROV, N.Sh.; VOLKOVA, T.V.; ZAMYCHKINA, K.S.; MALKIMAN, I.V.; MARTSEVICH, M.S.; NILOVA, N.A.; GOLUBYKH, L.I., red.; BUKOVSKAYA, N.A., tekhn. red.

[Compensatory processes in the digestive system following resection of the stomach and the small intestine; experimental studies] Kompensatornye protsessy v pishchevaritel'noi sisteme posle rezektsii zheludka i tonkogo kishechnika; eksperimental'nye issledovaniia. Moskva, Medgiz, 1963. 290 p. (MIRA 17:3)

ZAMYCHKINA, K.S.; KRYUKOVA, L.V.

Absorption of casein—I¹³ and methionine—3³⁵ from the digestive tract at various times after the resection of two-thirds of the stomach. Biul. eksp. biol. i med. 51 no.4:43-47 Ap ¹61. (MIRA 14:8)

1. Iz laboratorii fiziologii i patologii pishchevareniya (zav. - prof. S.I.Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir. - akademik V.N.Chernigovskiy) AMN SSSR, Moskva. Predstavlena akademikom V.N.Chernigovskim.

(STOMACH—SURGERY) (CASEIN) (METHIONINE)

ZAMYCHKINA, K.S.

Effect of subtotal resection of the stomach on the absorption from the digestive tract of sodium phosphate P32 and its utilization in the organism. Biul. eksp. biol. i med. 51 no.5:48-52 My '61.

(MIRA 14:8)

l. Iz laboratorii fiziologii i patologii pishchevareniya (zav. - prof. S.I. Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir. - 'akademik V.N.Chernigovskiy) AMN SSSR, Moskva. Predstavlena akademikom V.N.Chernigovskim.

(STOMACH) (PHOSPHORUS METABOLISM)

PARIN, V.V., red.; FILIPPOVICH, S.I., prof., red.; ZAMYCHKINA, K.S., red.; MALKIMAN, I.V., red.; SOVETOV, A.N., red.; BEL'CHIKOVA, Yu.S., tekhm. red.

[Activity of the digestive system and its regulation under normal and pathological conditions] Deiatel nost pishchevaritel noi sistemy i ee reguliatsiia v norme i patologii. Pod obshchei red. V.V.Parina. Moskva, Medgiz, 1961. 259 p. (MIRA 14:11)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut normal'noy i patologicheskoy fiziologii. 2. Deystvitel'nyy chlen AMN SSSR (for Parin). 3. Laboratoriya fiziologii i patologii pishchevareniya Instituta normal'noy i patologicheskoy fiziologii AMN SSSR, Moskva (for Zamychkina).

(DIGESTION) (DIGESTIVE ORGANS—SURGERY) (STOMACH—ULCERS)

ZAMYCHKINA, K.S.

Effect of qualitatively different food loads on the synthesis of phosphorus compounds in the liver and on their secretion with the bile. Vop. med. khim. 6 no. 6:579-583 N-D 160. (MIRA 14:4)

1. Institute of Normal and Pathological Physiology Academy of Medical Sciences of the U.S.S.R., Moscow.

(BILE) (LIVER) (PHOSPHORUS METABOLISM)

ZAMYCHKINA, K.S.

Material on the absorptive capacity of the gall bladder [with summary in English]. Biul.eksp.biol. 1 med. 46 no.919-12 S'58 (MIRA 11:11)

l. Iz laboratorii fiziologii i patologii pishchevareniya (zav. prof. S.I. Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(GALL BLADDER, metab.

(GALL BLADDER, wetab.

phospholipid & sodium phosphate labeled with
radiophosphorus absorb. (Rus))

(PHOSPHODIPIDS, metab.
gallbladder, absrop. of radiophosphorus labeled prep.
(Rus))

THE REPORT OF THE PROPERTY OF

(PHOSPHATES, metab.

aodium phosphate labeled with radiophosphurus,
absorp. by gallbladder (Rus))

ZAMYCHKINA.K.S.; RUDIK-GHUTOVA. Yo.A.; MARTSEVICH, M.S.

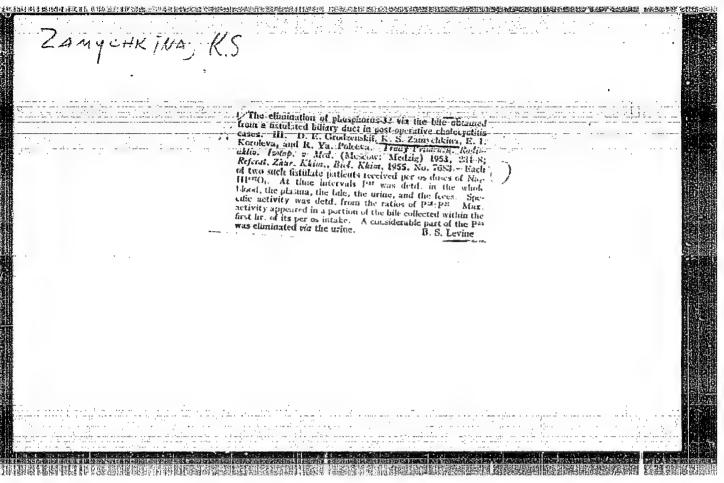
Effect of sodium salicylate on the digestive organs. Biul.eksp. biol. i med. 42 no.11:19-23 N '56. (MIRA 10:1)

1. Is institute normal'noy i patologicheskoy fiziologii (dir. deystvitel'nyy chlen AMN SSSR prof. V.N.Chernigovskiy) AMN SSSR,
Moskva, Predstavleno deystvitel'nym chlenom AMN SSSR V.N.Chernigovskim.

(GASTROINTESTINAL SYSTEM, eff. of drugs on,
acdium salicylate (Rus))

(SODIUM SALICYLATE, effs
on gastrointestinal system (Rus))

ZAMILAMIA K. S.	1500 THE PROPERTY OF THE PARTY
Inactions of lightled atoms in the study of the secretary functions of digestive glands. I. D. E. Gredzenskii, R. S. Zamyelkina, and E. I. Koroleva. Trady Printers of Radionality Inaction of Marxon Mercon:	
it is absorbed from the bile in the following day. The it is absorbed from the bile in the feets indicates that. B. S. Levine	



PLZAK,M.; DOBRY,J.; ZAMYKAL,A.

The Jarosz method of tissue therapy in the treatment of depressive neurasthenic forms of cerebral arteriocclerosis. Cesk. psychiat. 59 no.5:319-322 0'63.

1. Psychiatricka klinika fakulty vseobecneho lekarstvi KU, Praha a Psychiatricka lecebna v Hornich Berkovicich.

CZECHOSŁOVAKIA

on having a september the

PLZAK, M.; DOBRY, J.; ZANYKAL, A.; Psychiatric Clinic of the Faculty of General Medicine of the Charles University / Psychiatricka Klinika Fakulty Vseobecneho Lekarstvi KU 7, Prague;
Psychiatric Hospital / Psychiatricka Lecebna 7, Horni Berkovice.

"Tissue Therapy According to Jarosz in the Treatment of the Depressive Neurasthenic Type of Arteriosclerosis of the Cerebral

Prague, Coskoslovenska Psychiatrie, Vol 59, No 5, 1963, pp 319-

Abstract: Jarosz: modification of tissue therepy was tested in a group of 23 patients. All had confirmed symptoms of depressive neurasthenic arteriosclerosis of the cerebral arteries. The reneurasthenic afterioscierosis of the derebral arteries. The results were very encouraging. Treatment does not involve any complications and is very easily applied. 2 Tables, no references.

1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963730001-1"

ZAMYKAL, Antonin

Analysis of gerontopsychiatric cases. Cesk. psychiat. 58 no.2:95-97 Ap 162.

1. Psychiatricka lecebna v Hornich Berkovicich.

(PSYCHOSES SENILE statist)
(PSYCHOSES INVOLUTIONAL statist)

ZAMYSHEVSKAYA, N.N.; YAROSHINSKAYA, N.P. Methodology for a rapid determination of moisture and glycerin in cellophane films. Khim. volok. no.6:67-68 '65.

(MIRA 18:12)

ninger in 1908-1909 in 1909 - Annander in 1909-1909 in 1909-1909 in 1909-1909 in 1909-1909 in 1909-1909 in 1909

1. Barnaul'skiy filial Opytno-konstruktorskogo byuro avtomatiki. Submitted April 13, 1965.

YAROSHINSKAYA, N.P.; ZAMYSHEVSKAYA, N.N.; ISAYEVA, D.D.

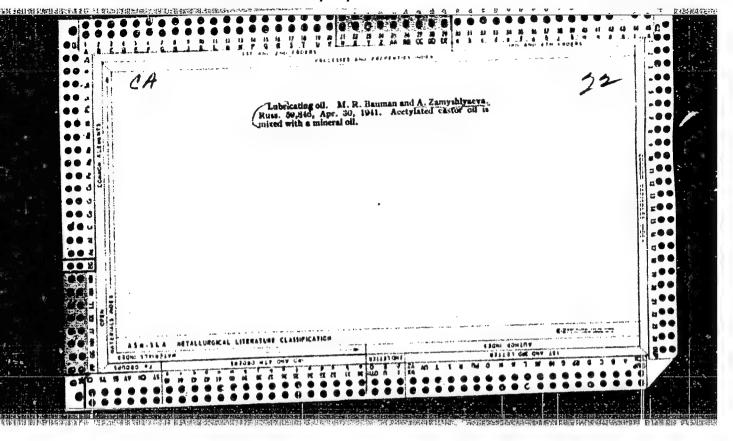
Paste for repairing rubberized apparatus. Khim. volok. no.6:69
'64. (MIRA 18:1)

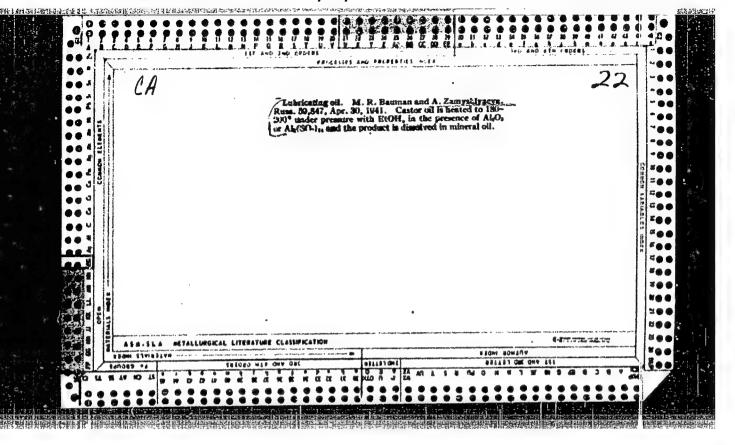
1. Barnaul'skiy filial Opytno-konstruktorskogo byuro avtomatiki.

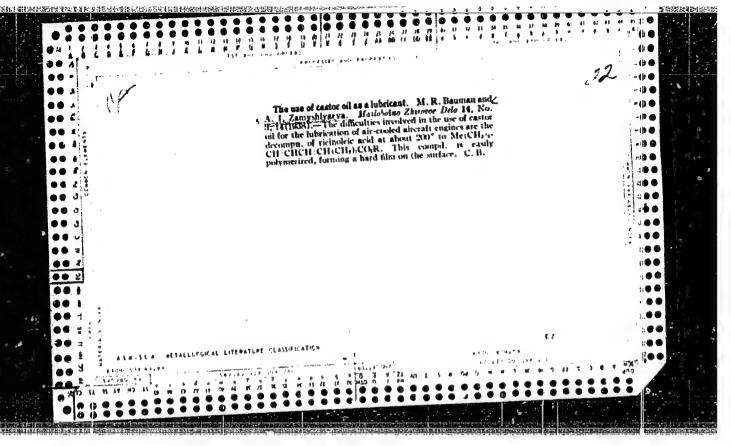
ZAMYSHEVSKAYA, N.N.; RYZHAKOVA, L.A.

Methods of rapid determination of the degree of polymerization of alkali cellulose. Khim.volok no.4169-71 '62. (MIRA 15:8)

1. Opytno-konstruktorskoye byuro aytomatiki, Barnaul'skiy fillal. (Cellulose) (Polymerization)







Absorption and assimilation of radioactive iron by erythrocytes in anemia induced by partial denervation of the stomach [with summary in English]. Biul.eksp.biol. i med. 45 no.3:51-56

Mr'58 (MIRA 11:5)

1. Is Instituta normal'noy i patologicheskoy fiziologii (dir.-

deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) AMN SSSR, Moskva. Predstavlena devstvitel'nym chlenom AMN SSSR V.N. Chernigovskim. (ANEMIA, experimental.

erythrocyte absorp. & assimilation of radioiron in anemia pord. by gastric denervation in dogs (Rus))

(IRON, radioactive,

(STOMACH, physiology,

denervation causing exper. anemia. eff. on erythrocyte radioiron intake (Rus))

(ERYTHROCYTE, metabolism

radiciron, intake in exper. anemia prod. by gastric denervation (Rus))

TOMASHEVSKIY, L., gornyy inzh.; ZAMYSHLYAYEV, V.

Mining systems with flexible roofing. NTO 3 no.9:39-49 S '61.

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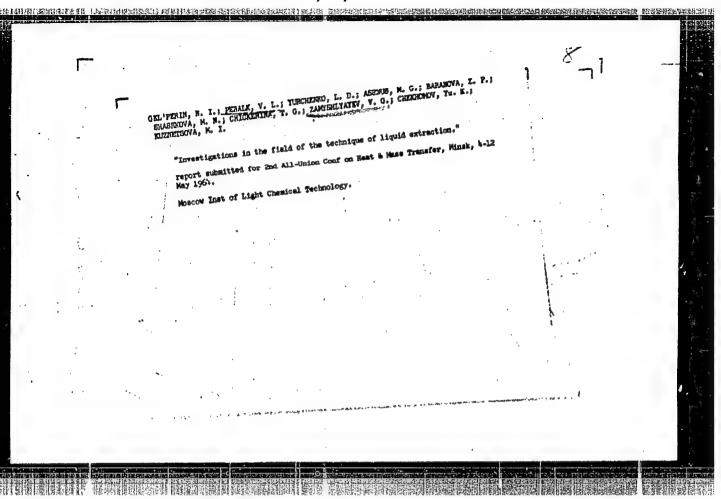
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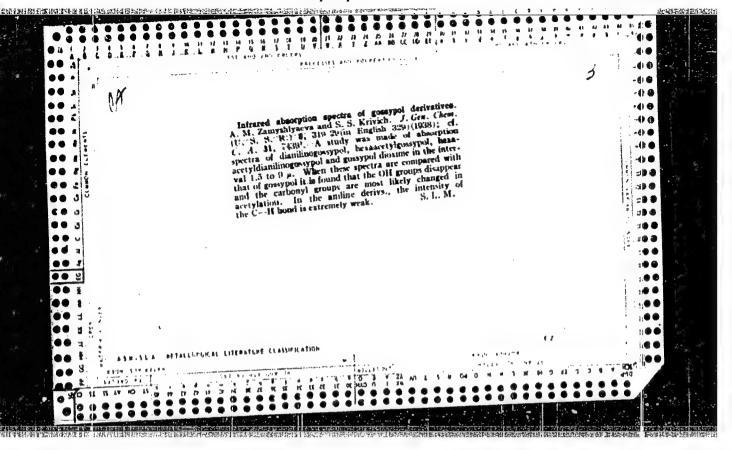
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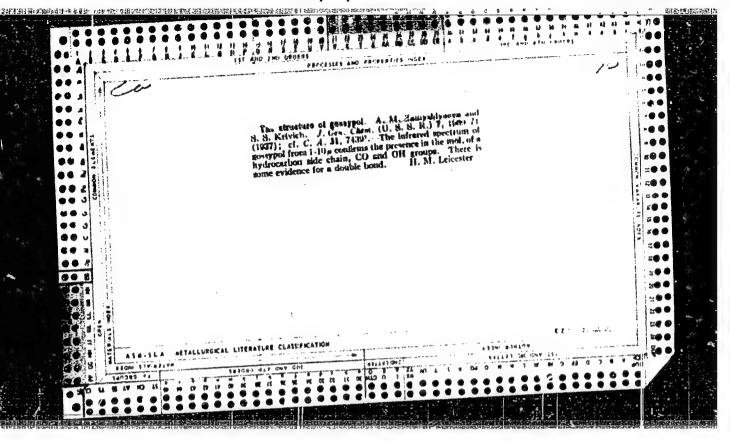
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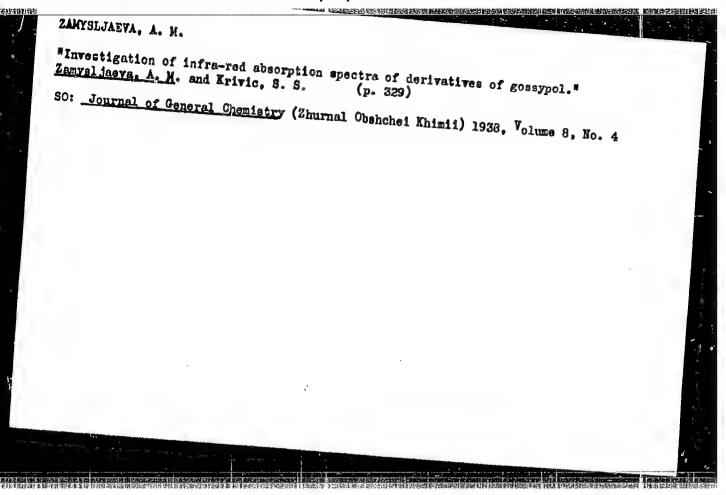
1. Kifedra organichesioy khimii Moskovskogo universiteta.

ZAMYSHLYAYEVA, L.I.; SLOVOKHOTOVA, T.A.; BALANDIN, A.A.

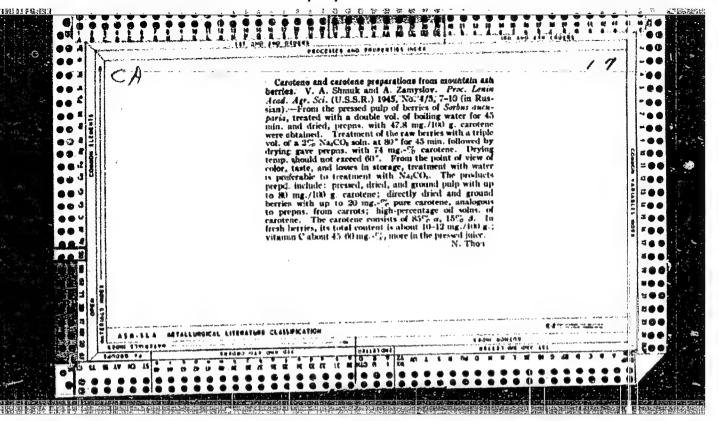
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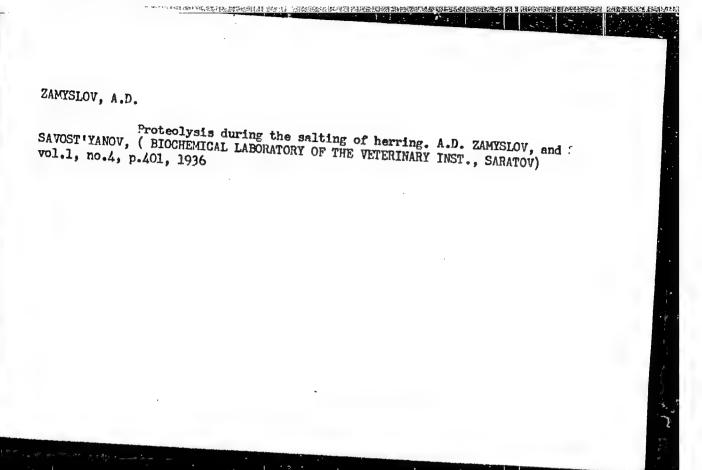
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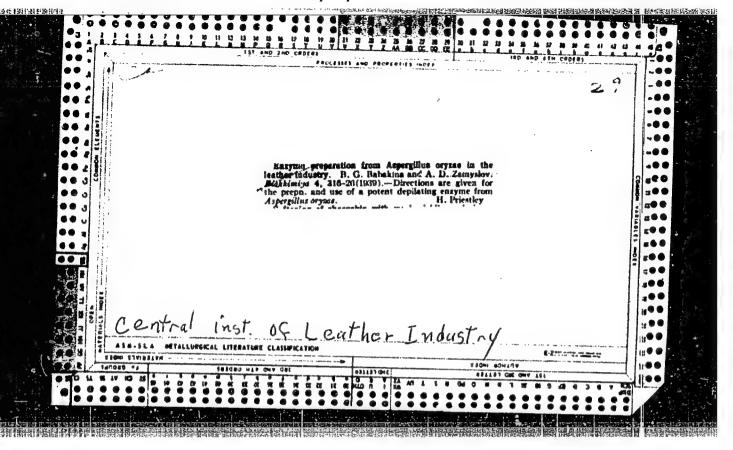


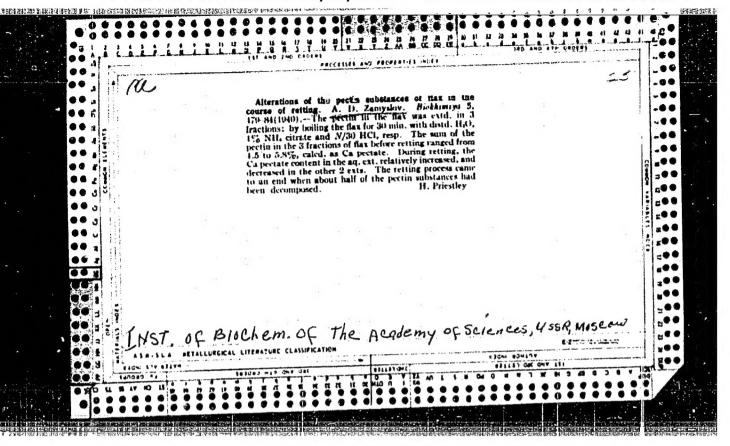
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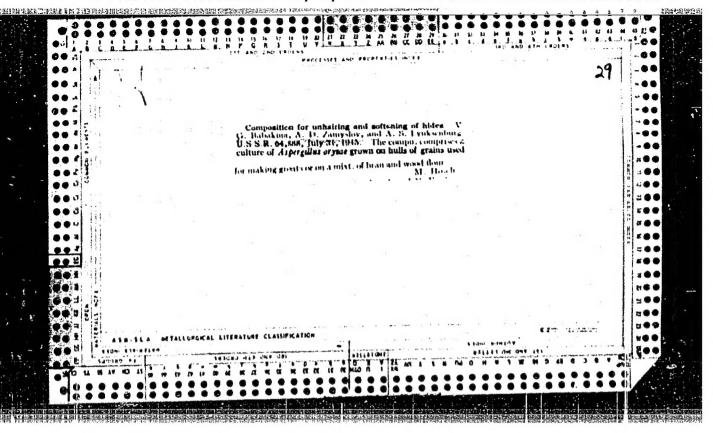
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